

Livestock flies - sw

DEC 3 1956

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
ENTOMOLOGY RESEARCH BRANCH

P. O. Box 3391
Orlando, Florida
November 30, 1956

ONG 1/10/57

AIRMAIL

To: R. C. Bushland, Box 232, Kerrville, Texas
From: A. H. Baumhover
Through: C. L. Smith *CL*
Subject: Clewiston Field Test

In reply to your request during our telephone conversation today, enclosed is a copy of weekly egg mass collections to date. Several corrections will be noted in weekly totals as reported to C. L. Smith 11/7/56.

We are planning to continue fly trapping studies in this area indefinitely and will continue egg mass collections as long as an appreciable number of sterile masses are being recorded. On 12/3/56 a 3-week record of egg mass collections following the final release 11/13/56 will have been completed. As you will recall only 2 fly traps are being operated in each of the 3 areas. Please advise if you feel that this number should be increased to 5 following termination of the egg mass collections.

A discussion of factors influencing egg mass collections as touched on in our phone conversation will follow.

A. H. Baumhover

Enc. (1)
cc: A. W. Lindquist (2)

Table 1.--Weekly egg mass collections, fertile (F) and Sterile (S), in the Clewiston, Florida test area where sterile screw-worm flies (both sexes) were released by plane in 1-mile and 3-mile swaths at the rate of 285 males per sq. mi. approximately every 5 days.^{1/}

Area	Swath width	No.	:Pen		:10/9-15		:10/16-22		:10/23-29		:10/30-11/5		:11/6-12		:11/13-19		:11/20-26		Totals		Percent sterile
			: F.	: F ^{2/}	: F.	: S.	: F.	: S.	: F.	: S.	: F.	: S.	: F.	: S.	: F.	: S.	: F.	: S.	: F.	: S.	
1	1-mile	1	10	34	28	0	26	1	3	0	4	0	3	2					36	3	7.7
		2	37	24	13	0	31	2	20	0	24	10	6	3					81	15	15.6
		3	24	21	45	0	8	1	9	1	19	6	21	11					57	19	25.0
		Totals	71	79	86	0	65	4	32	1	47	16	30	16					174	37	17.5
2	3-miles	4	20	24	47	1	33	1	36	7	27	3	5	3					101	14	12.2
		5	23	14	22	2	18	6	11	3	13	9	13	3					55	21	27.6
		6	34	43	23	1	7	1	9	3	25	2	2	0					43	6	12.2
		Totals	77	81	92	4	58	8	56	13	65	14	20	6					199	41	17.1
3	Untreated check	7	13	42	87	0	169	1	130	0	107	0	113	0					606	1	--
		8	8	37	20	1	32	0	89	0	50	0	32	2					223	3	--
		9	1	10	10	0	11	0	38	0	15	0	39	0					113	0	--
		Totals	22	89	117	1	212	1	257	0	172	0	184	2					942	4	--

^{1/} Actual release dates are as follows: 10/23/56, 10/28/56, 11/4/56, 11/8/56 and 11/13/56.

^{2/} During the 2-week period prior to release 4 of the 419 masses collected failed to hatch.

